CLAIMS

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1. A control mechanism for a planetary manual transmission having multiple synchronizers each having a neutral position and at least one engaged position and a plurality of shift rails adapted to move the synchronizers, said control mechanism comprising:

a plurality of slotted members each having a distinct slot for each individual shift rail;

a control pin aligned in each of said slot configurations in each of slotted members; and

means for manipulating said members individually to enforce selective movement of said pins to thereby control at least two synchronizers into respective engaged positions.

- 2. The control mechanism defined in Claim 1 further comprising: at least one of said slotted members being a neutral member; and the remaining slotted members being ratio control members.
- 3. The control mechanism defined in Claim 1 further comprising: at least one of said four members being a reverse ratio control member.
- 4. The control mechanism defined in Claim 3 further wherein: at least three of said slotted members are moveable to individually establish at least two ratios.
- 5. The control defined in Claim 1 further wherein: each of said slotted members is a substantially flat plate member; and

each of said flat plate members having a pair of spaced

longitudinal grooves that are nested when all of the plate members are positioned in a neutral position.

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- 6. The control mechanism defined in Claim 5 further wherein: each of said grooves has a predetermined depth and a movement of one of said plate members from the neutral position to a ratio position causing the remaining plate member to be moved vertically a distance equal to twice said predetermined depth.
 - 7. The control mechanism defined in Claim 1 further wherein: each of said slotted members is a tubular structure.